



ENTERED

PCT10

## RAW SEQUENCE LISTING

DATE: 03/07/2002

PATENT APPLICATION: US/10/069,495

TIME: 15:25:09

Input Set : A:\jab-1526.txt

Output Set: N:\CRF3\03072002\J069495.raw

```

5 <110> APPLICANT: Luyten, Walter
6   Naranjo, Jose
7   Mellstrom, Britt
11 <120> TITLE OF INVENTION: GAS1 POLYPEPTIDES
15 <130> FILE REFERENCE: JAB-1526
C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/069,495
C--> 19 <141> CURRENT FILING DATE: 2002-02-20
19 <150> PRIOR APPLICATION NUMBER: PCT/EP00/08182
21 <151> PRIOR FILING DATE: 2000-08-21
25 <150> PRIOR APPLICATION NUMBER: EP 99306702.4
27 <151> PRIOR FILING DATE: 1999-08-24
31 <160> NUMBER OF SEQ ID NOS: 10
35 <170> SOFTWARE: PatentIn Ver. 2.0
39 <210> SEQ ID NO: 1
41 <211> LENGTH: 1762
43 <212> TYPE: DNA
45 <213> ORGANISM: Rattus norvegicus
49 <400> SEQUENCE: 1
51 agaaacgctc cgagtttccg ggtcctccct gcgcctggct cccagaaactt cccggagtgc 60
53 ggcccaggcc cgggtagagg gggaggggac caagcgctcct ggtcgcggga aggcgggatg 120
55 cagagctgcg aactgctacg cgctactgag ccgggaacga ggagccaccg gccacacgac 180
57 cttctgcagg cgccttgca ccatgcacccc cggcgccgcg gctcctgcag ccttgccgcg 240
59 tccccaggg acagcaactga acgcttccag ccgccgatcg gagctggacc tgcgtccgcg 300
61 cgcctctcag ggagccccgg ccgcggtgct ggagcaaac cccgcctcta ccagccgcg 360
63 ggcccgccgg atggatggat gaggacgccc atgccagaag tgcgcggaac tcggacaaac 420
65 ttttccagcg gccccgcggc cgccaccga cctcgtttc cgtccgcac cgcgtccggc 480
67 ggccgctgct gcccgcgatg ctagccgcac tgctgggcgg cggcgaggcc cgtcggggga 540
69 gcttgccggg cgccttgctg tgctgatgg cgtgctgca gttgctggg tcggcgccgc 600
71 ggggctcggg gctggcgcac ggccgcccgc tcatctgctg gcaggcgctg ctgcagtgtc 660
73 agggagagcc ggactgcagc tacgcctaca gccagtacgc cgaggcgtgt gcgccggtgc 720
75 tcgcacagcg cggcgagct gatgctcctg ggcccgtcgg cgccttcccc tcctcgccgc 780
77 cgtccttctc gccgcgctgg cgatgcccga gccactgcat ctcggcgctc atccagctca 840
79 accacacgcg ccgcgggccc gcgctggagg actgcgactg cgcgcaggac gaacactgca 900
81 ggtccaccaa gcgcgccatc gagcctgtgc tgccgcgcac cagcagcgtg ggcccgggcg 960
83 cgggagcggg ctgggtcatg ggctgcaccg aggcccgcg gcgctgcgac cgggacagcc 1020
85 gctgcaacct ggcactcggc cgctatctag cctactgcgg caagcttttc aacggtctcc 1080
87 gccgcaccga cgagtgcgc gcggtcatcg aggacatgct ggcggtgccc aaggcggcgc 1140
89 tgctcaacga ctgtgtgtgc gatgggctgg agaggcccat ctgcgagtcg gtcaaggaga 1200
91 acatggcccc cctgtgcttc ggcccagatg cgagcaacgg tccgggcagc agcggtcgcg 1260
93 acgggggcct agacgactac tacgacgaag aatatgatga cgagcagcgc gctggggccg 1320
95 cgggcgccga gcagcccctg gacgacgacg acggccttgc gcgcccgggc ggcggcgctg 1380
97 ctggggcagg cggacgcggg gacttgcccc acgggcccgg gcgcaggagc agcagcagcg 1440
99 gcagtggagg ccaactgggcg acccgaagct cctggacccc gtttgctgtc tttctgctgc 1500

```

## RAW SEQUENCE LISTING

DATE: 03/07/2002

PATENT APPLICATION: US/10/069,495

TIME: 15:25:09

Input Set : A:\jab-1526.txt

Output Set: N:\CRF3\03072002\J069495.raw

```

101 tctgtgtgt tgggtccac ttgtagcccc cgcgcccctg ctgcaggcta ctccaggccg 1560
103 gtacgcgcga cccagctgat tcccagagcag ggcacctgtg gctcggagac cggagatgat 1620
105 caggagcact gaccacact ctccgcgggt agacagggcc cagcccgtac cgcaactacc 1680
107 atgctcggcc cttttctgtg cggttttcca ggctgcagat aaaaccggcc gatctatact 1740
109 gccggtcta atctgcagaa tt 1762
113 <210> SEQ ID NO: 2
115 <211> LENGTH: 383
117 <212> TYPE: PRT
119 <213> ORGANISM: Rattus norvegicus
123 <400> SEQUENCE: 2
125 Met Asp Glu Asp Ala His Ala Arg Ser Ala Arg Asn Ser Asp Lys Leu
127 1 5 10 15
131 Phe Gln Arg Pro Arg Gly Arg His Pro Ser Leu Val Ser Ala Pro His
133 20 25 30
137 Arg Val Arg Arg Pro Leu Leu Pro Ala Met Leu Ala Ala Leu Leu Gly
139 35 40 45
143 Gly Gly Gly Ala Arg Ser Gly Ser Leu Pro Gly Ala Leu Leu Cys Leu
145 50 55 60
149 Met Ala Leu Leu Gln Leu Leu Gly Ser Ala Pro Arg Gly Ser Gly Leu
151 65 70 75 80
155 Ala His Gly Arg Arg Leu Ile Cys Trp Gln Ala Leu Leu Gln Cys Gln
157 85 90 95
161 Gly Glu Pro Asp Cys Ser Tyr Ala Tyr Ser Gln Tyr Ala Glu Ala Cys
163 100 105 110
167 Ala Pro Val Leu Ala Gln Arg Gly Gly Ala Asp Ala Pro Gly Pro Val
169 115 120 125
173 Gly Ala Phe Pro Ser Ser Ala Ala Ser Phe Ser Pro Arg Trp Arg Cys
175 130 135 140
179 Pro Ser His Cys Ile Ser Ala Leu Ile Gln Leu Asn His Thr Arg Arg
181 145 150 155 160
185 Gly Pro Ala Leu Glu Asp Ser Asp Cys Ala Gln Asp Glu His Cys Arg
187 165 170 175
191 Ser Thr Lys Arg Ala Ile Glu Pro Cys Leu Pro Arg Thr Ser Val
193 180 185 190
197 Gly Pro Gly Ala Gly Ala Gly Ser Val Met Gly Cys Thr Glu Ala Arg
199 195 200 205
203 Arg Arg Cys Asp Arg Asp Ser Arg Cys Asn Leu Ala Leu Gly Arg Tyr
205 210 215 220
209 Leu Ala Tyr Cys Gly Lys Leu Phe Asn Gly Leu Arg Arg Thr Asp Glu
211 225 230 235 240
215 Cys Arg Ala Val Ile Glu Asp Met Leu Ala Val Pro Lys Ala Ala Leu
217 245 250 255
221 Leu Asn Asp Cys Val Cys Asp Gly Leu Glu Arg Pro Ile Cys Glu Ser
223 260 265 270
227 Val Lys Glu Asn Met Ala Arg Leu Cys Phe Gly Pro Asp Ala Ser Asn
229 275 280 285
233 Gly Pro Gly Ser Ser Gly Ser Asp Gly Gly Leu Asp Asp Tyr Tyr Asp
235 290 295 300
239 Glu Glu Tyr Asp Asp Glu Gln Arg Ala Gly Ala Ala Gly Gly Glu Gln

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/10/069,495

DATE: 03/07/2002  
 TIME: 15:25:09

Input Set : A:\jab-1526.txt  
 Output Set: N:\CRF3\03072002\J069495.raw

```

241 305          310          315          320
245 Pro Leu Asp Asp Asp Asp Gly Leu Ala Arg Pro Gly Gly Gly Ala Ala
247          325          330          335
251 Gly Ala Gly Gly Arg Gly Asp Leu Pro His Gly Pro Gly Arg Arg Ser
253          340          345          350
257 Ser Ser Ser Gly Ser Gly Gly His Trp Ala Thr Arg Ser Ser Trp Thr
259          355          360          365
263 Pro Phe Ala Cys Phe Leu Leu Leu Leu Leu Gly Ser His Leu
265          370          375          380
271 <210> SEQ ID NO: 3
273 <211> LENGTH: 1762
275 <212> TYPE: DNA
277 <213> ORGANISM: Rattus norvegicus
281 <400> SEQUENCE: 3
283 aattctgcag attagagccg gcagtataga tcggccgggtt ttatctgcag cctggaaaac 60
285 cgcacagaaa agggccgagc atggtagtgt cggtacgggc tgggccctgt ctaccgcgg 120
287 agagtgtggg tcagtgtctc tgatcatctc cggtctccga gccacaggtg ccctgctcgg 180
289 gaatcagctg ggtcgcgcgt accggcctgg agtagcctgc agcaggggag cgggggctac 240
291 aagtgggacc caagcagcag gagcagcaga aaacaggcaa acgggggtcca ggagcttcgg 300
293 gtcgcccagt ggcctccact gccgtgtgtg ctgctcctgc gccccggccc gtggggcaag 360
295 tccccgcgtc cgctgcccc agcagcgccg ccgcccgggc gcgcaaggcc gtcgtcgtcg 420
297 tccaggggct gctcgcgcgc cgcggcccca gcgcgtgtgt cgtcatcata ttcttcgtcg 480
299 tagtagtcgt ctaggccccc gtccgagccg ctgctgcccc gaccgttgct cgcattctgg 540
301 ccgaagcaca ggcggggccat gttctccttg accgactcgc agatgggcct ctccagccca 600
303 tcgcacacac agtcgttgag cagcgccgcc ttgggcaccg ccagcatgtc ctcgatgacc 660
305 gcgcggcact cgtcgggtgc gcggagaccg ttgaaaagct tgccgcagta ggctagatag 720
307 cggccgagtg ccaggttgca gcggctgtcc cggtcgcagc gccgcgggag ctcggtgcag 780
309 cccatgaccg agcccgtctc cgcgcccggg ccacagctgc tgggtgcgcg cagacagggc 840
311 tcgatggcgc gcttggttga cctgcagtgt tcgtcctgcg cgcagtgcga gtcctccagc 900
313 gcggggccgc ggcgcgtgtg gttgagctgg atgagcgccg agatgcagtg gctcgggcat 960
315 cgccagcgcg gcgagaagga cgcggccgag gaggggaagg cgccgacggg cccaggagca 1020
317 tcagctccgc cgcgctgtgc gagcaccggc gcacacgcct cggcgtagtg gctgtaggcg 1080
319 tagctgcagt ccggtctctc ctgacactgc agcagcgccg gccagcagat gaggcggcgg 1140
321 ccgtgcgcca gccccgagcc ccgcggcgcc gagcccagca actgcagcag cgccatcagg 1200
323 cacagcaagg cgcgcggcaa gctccccgag cgggctccgc cgccgcccag cagtgcggct 1260
325 agcatcgagg gcagcagcgg ccgcgggacg cgggtgcggg cggaacagag gctcgggtgg 1320
327 cggccgcggg gccgctggaa aagtttgtcc gagttccgcg cacttctggc atgggcgtcc 1380
329 tcatccatcc atgccggcgg ccccgcggtt ggtagaggcg ggtgtttgct ccagcaccgc 1440
331 ggccggggct ccctgagagg cgcggcgacg caggtccagc tccgatcggc ggctggaagc 1500
333 gttcagtgtc gtccctgggg gacgcggcaa ggctgcagga gccgcggcgc cgggggtgca 1560
335 tggtgcaagg cgcctgcaga aggtcgtgtg gccggtggct cctcgttccc ggctcagtag 1620
337 cgcgtagcag ttgcagctc tgcatccgcg ctcccgcgga ccaggacgct tggccccctc 1680
339 cccctctacc cgggcctggg ccgcaactcg ggaagttctg ggagccaggc gcaggaggga 1740
341 ccccgaaact cggagcggtt ct 1762
345 <210> SEQ ID NO: 4
347 <211> LENGTH: 131
349 <212> TYPE: PRT
351 <213> ORGANISM: Rattus norvegicus
355 <400> SEQUENCE: 4

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/069,495

DATE: 03/07/2002

TIME: 15:25:09

Input Set : A:\jab-1526.txt

Output Set: N:\CRF3\03072002\J069495.raw

```

357 His Cys Arg Ser Thr Lys Arg Ala Ile Glu Pro Cys Leu Pro Arg Thr
359   1           5           10           15
363 Ser Ser Val Gly Pro Gly Ala Gly Ala Gly Ser Val Met Gly Cys Thr
365           20           25           30
369 Glu Ala Arg Arg Arg Cys Asp Arg Asp Ser Arg Cys Asn Leu Ala Leu
371           35           40           45
375 Gly Arg Tyr Leu Ala Tyr Cys Gly Lys Leu Phe Asn Gly Leu Arg Arg
377   50           55           60
381 Thr Asp Glu Cys Arg Ala Val Ile Glu Asp Met Leu Ala Val Pro Lys
383   65           70           75           80
387 Ala Ala Leu Leu Asn Asp Cys Val Cys Asp Gly Leu Glu Arg Pro Ile
389           85           90           95
393 Cys Glu Ser Val Lys Glu Asn Met Ala Arg Leu Cys Phe Gly Pro Asp
395           100          105          110
399 Ala Ser Asn Gly Pro Gly Ser Ser Gly Ser Asp Gly Gly Leu Asp Asp
401           115          120          125
405 Tyr Tyr Asp
407   130
413 <210> SEQ ID NO: 5
415 <211> LENGTH: 26
416 <212> TYPE: DNA
417 <213> ORGANISM: artificial sequence
420 <220> FEATURE:
421 <223> OTHER INFORMATION: 5' primer from mouse sequence
423 <400> SEQUENCE: 5
425 gaattcgaga aacgctccga gtttcg
428 <210> SEQ ID NO: 6
429 <211> LENGTH: 37
430 <212> TYPE: DNA
431 <213> ORGANISM: Artificial sequence
434 <220> FEATURE:
435 <223> OTHER INFORMATION: 3' primer from rat
438 <400> SEQUENCE: 6
440 ggatccagtt ttaatacagt ttatacgacg taccagg
443 <210> SEQ ID NO: 7
445 <211> LENGTH: 15
447 <212> TYPE: DNA
449 <213> ORGANISM: Artificial Sequence
453 <220> FEATURE:
455 <223> OTHER INFORMATION: antisense oligonucleotide
459 <400> SEQUENCE: 7
461 tcctcatcca tccat
467 <210> SEQ ID NO: 8
469 <211> LENGTH: 15
471 <212> TYPE: DNA
473 <213> ORGANISM: artificial sequence
477 <220> FEATURE:
479 <223> OTHER INFORMATION: oligonucleotide
483 <400> SEQUENCE: 8

```

26

37

15

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/069,495

DATE: 03/07/2002

TIME: 15:25:09

Input Set : A:\jab-1526.txt

Output Set: N:\CRF3\03072002\J069495.raw

```
485 tcctcatcga tggta 15
491 <210> SEQ ID NO: 9
493 <211> LENGTH: 15
495 <212> TYPE: DNA
497 <213> ORGANISM: artificial sequence
501 <220> FEATURE:
503 <223> OTHER INFORMATION: antisense oligonucleotide
507 <400> SEQUENCE: 9
509 gagctggtgt tccat 15
515 <210> SEQ ID NO: 10
517 <211> LENGTH: 15
519 <212> TYPE: DNA
521 <213> ORGANISM: artificial sequence
525 <220> FEATURE:
527 <223> OTHER INFORMATION: oligonucleotide
531 <400> SEQUENCE: 10
533 gtagttgtcc atggt 15
```

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/069,495

DATE: 03/07/2002

TIME: 15:25:10

Input Set : A:\jab-1526.txt

Output Set: N:\CRF3\03072002\J069495.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application No  
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date